



**King Saud University
College of Computer & Information Science
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Senior Project - Final Report

Wireless Area Surveillance System

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CHAPTER 1

Intorduction

Surveillance Systems are very important security systems to secure and protect the important areas automatically by computer, like in banks, government buildings, shopping malls and even homes. Through this system you can reduce the number of security men, and the number of attacks on these places by using high efficient systems.

The idea of the project

This project will create a “Surveillance System” by building a small system that includes:

- 1- Camera.
 - 2- Sensors.
 - 3- Wireless card.
 - 4- Embedded Board “Microcontroller”.
 - 5- Base Station “a monitoring computer”.
- (See figure 1.1 to see contents of the project)

The system operates as follows:

When the sensors sense that there is any motion in the area then the camera automatically take a photo and sends it to the base station ‘a monitoring computer’ that it is connected to it by wireless.